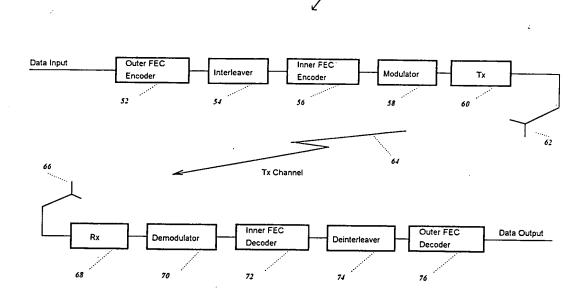


Fig. 3



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Still and

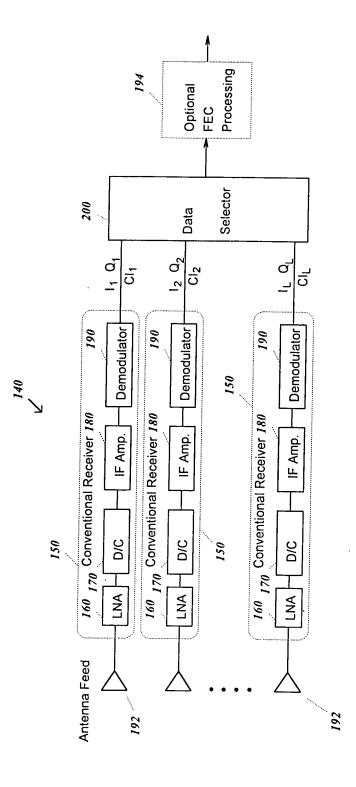
Fig. 4 F<sub>1</sub>(t) F<sub>2</sub>(t) F<sub>3</sub>(t) 82 84  $I_{U}(t)$ MW Up Converter MW Power Amplifier Modulator  $\overline{Q_U(t)}$ MW Oscillator 88 carrier sin(w<sub>M</sub>t) 86 Transmission Medium 92 F<sub>4</sub>(t) 102 F(t) F<sub>6</sub>(t) I[C'(t)] MW Low Noise Amplifier Down Converter AGC IF Amplifier Demodulator Q[S'(t)] MW Oscillator 100 94 carrier

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 $sin(w_{|F}t+d)$ 





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Fig. 6 Block Diagram of the Diversity Signal Data Selector System

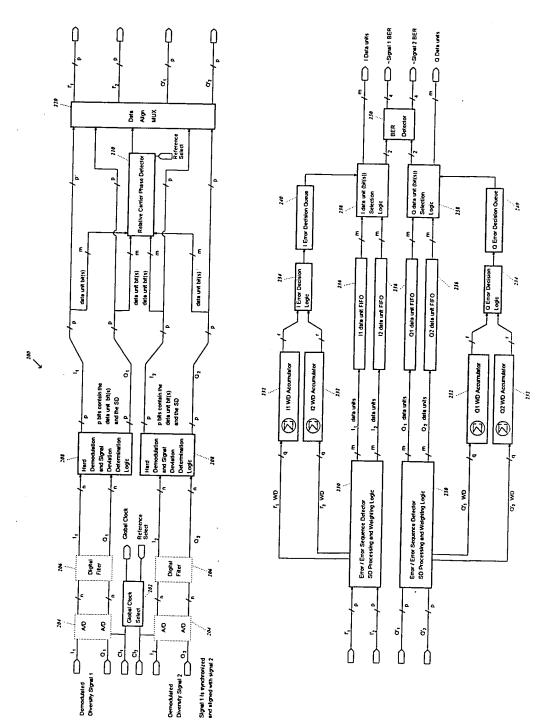
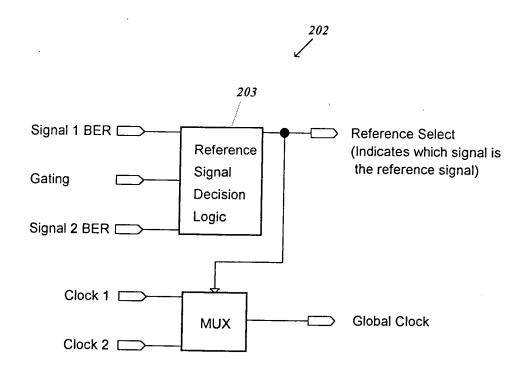
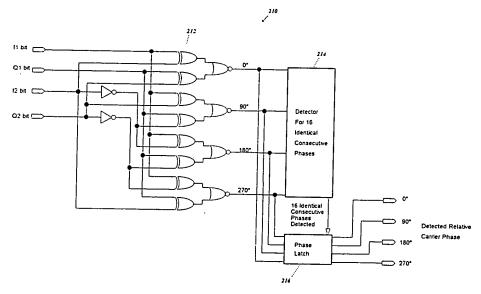




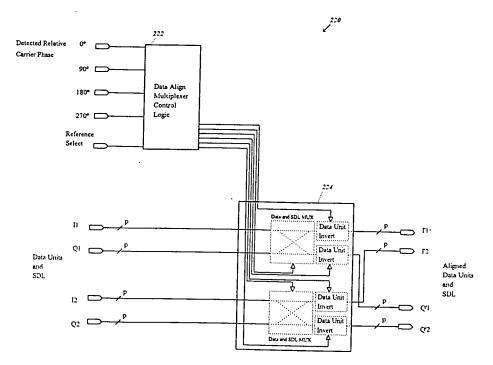
Fig. 7 Global Clock Select



## Relative Carrier Phase Detector

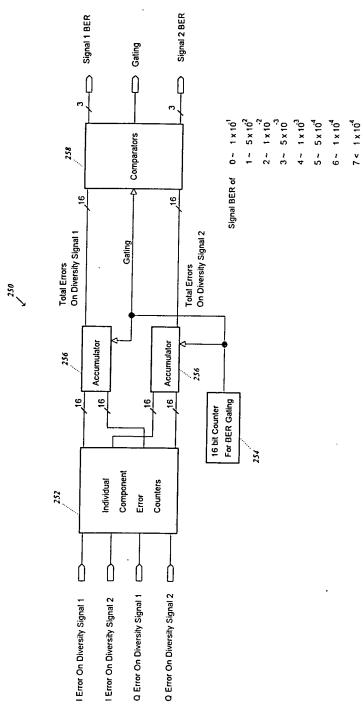


## Data Align Multiplexer

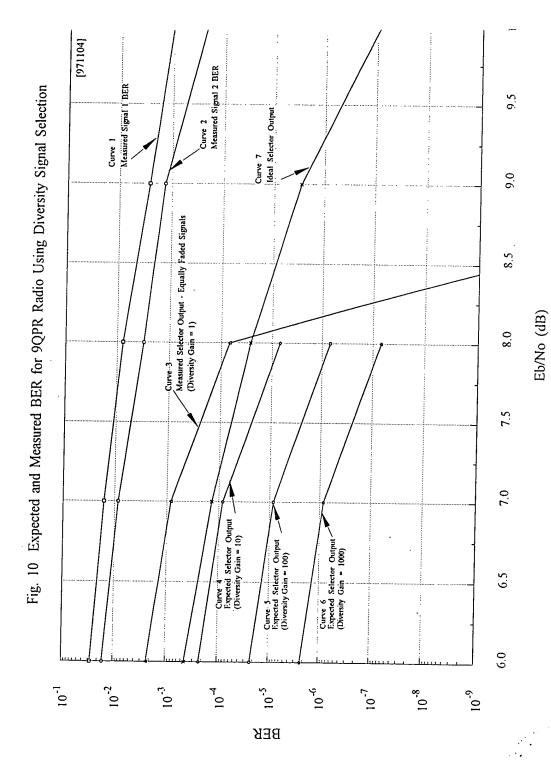


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Fig. 9 BER Detector



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Curve 2
Two-Signal Diversity Selection, Uncoded
(simultaneously and equally faded signals) Fig. 11 Expected BER Characteristics of Unprotected and Diversity Protected QPSK Radio Curve 1 Single-Signal Uncoded Curve 4 Single-Signal ITU Coded Curve 3 Three-Signal Diversity Selection, Uncoded Curve 5
Two-Signal Diversity
Selection, ITU Coded
(simultaneously and equally faded signals) 0.0 10<sub>-1</sub> 10-2  $10^{-3}$ 104 10-5 10-9 10-6 10-7  $10^{-8}$ ВЕК

· . :. ·

10.0

8.0

6.0

Eb/No (dB)

... Expected Receiver Operation Limit